

ProtectaFlex Detect

Flexible Double Containment Solution



Flexible double containment solution for safe and reliable chemicals transportation and dosing, with leak detection system.

Range

Material	DN	OD pipe (mm)	OD Outer pipe Polyurethane (mm)	Max Working Pressure 20°C
RPVC	6-50	11,5-62	14,5-65	16 bar
LDPE	6-50	11,5-62	14,5-65	16,8 bar
PTFE	6-25	8-28	11-32	14 bar

Materials

ProtectaFlex Detect features a primary pipe made of RPVC, LDPE, or PTFE, surrounded by a reinforced PU layer for pressure resistance, allowing a broad chemical compatibility with different kind of fluids. Two copper wires around the primary pipe enhance its reliability in case of a leak.

Features and benefits

- **Flexible pipe:** Reduced bending radius, easier to handle and install.
- **Reliable:** Strong resistance to pressure and chemical attack.
- **Safe:** Immediate visual and audible alarm in case of chemical leak or system failure.
- **Cost-efficient installation:** Supplied with a simple installation kit.
- **Easy to maintain:** Quicker and safer pipe replacement.
- **Lightweight and compact:** Lighter than traditional systems, reducing transport and packaging costs.

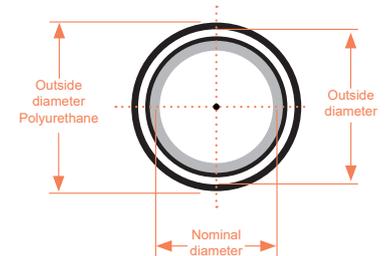
Available range and dimensions

RPVC Double Containment

Pipes

DN (mm) *	OD pipe (mm)	OD Outer pipe (mm) (Polyurethane)	Bend radius (mm)	Weight (kg/m)	Code
6	11,5	14,5	45	0,16	PFD115063PVC
10	16	19	75	0,25	PFD160100PVC
12	18,5	21,5	98	0,29	PFD185125PVC
20	26	29	136	0,46	PFD260190PVC
25	33	36	166	0,64	PFD330250PVC
32	42	45	192	0,95	PFD420320PVC
40	48	51	250	1,10	PFD480380PVC
50	62	65	347	1,64	PFD620500PVC

* Tolerance of manufacturing +/- 0,25 mm up to 25mm and +/- 0,65 mm up to 50 mm



LDPE Double Containment

Pipes

DN (mm) *	OD pipe (mm)	OD Outer pipe (mm) (Polyurethane)	Bend radius (mm)	Weight (kg/m)	Code
6	11,5	14,5	22	0,14	PFD115063PE
10	16	19	37	0,21	PFD160100PE
12	18,5	21,5	49	0,25	PFD185125PE
20	26	29	84	0,38	PFD260190PE
25	33	36	118	0,53	PFD330250PE
32	42	45	175	0,79	PFD420320PE
40	48	51	215	0,91	PFD480380PE
50	62	65	315	1,34	PFD620500PE

* Tolerance of manufacturing +/- 0,25 mm up to 25mm and +/- 0,65 mm up to 50 mm

**Pipe standard: WRAS Approval (WRAS N°1504522)

PTFE Double Containment

Pipes

DN (mm) *	OD pipe (mm)	OD Outer pipe (mm) (Polyurethane)	Bend radius (mm)	Weight (kg/m)	Code
6	8	11	83	0,42	PFD080060PTFE
8	10	13	127	0,49	PFD100080PTFE
10	12	15	184	0,54	PFD160100PTFE
12	14	17	214	0,64	PFD185125PTFE
19	21	24	506	0,80	PFD260190PTFE
25	28	32	594	0,98	PFD330250PTFE

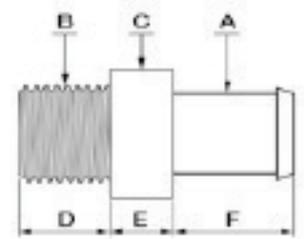
* Tolerance of manufacturing +/- 0,25 mm up to 25mm and +/- 0,65 mm up to 50 mm

Fittings for PVC and LDPE pipe

Threaded PVC fittings

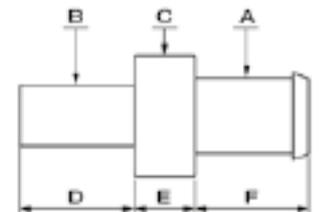
OD - A x B (Thread)	C	ID	D	E	F	Artikelnummer	Material
6,3 x 1/2"	25	3,5	20	15	30	PFXAFV060050	PVC-U
10 x 1/2"	30	6,5	20	15	30	PFXAFV100050	PVC-U
12,5 x 1/2"	30	8,5	20	15	30	PFXAFV125050	PVC-U
19 x 3/4"	40	13	25	15	30	PFXAFV190075	PVC-U
25 x 1"	40	18,5	30	20	40	PFXAFV250100	PVC-U
32 x 1 1/4"	50	22	35	20	40	PFXAFV320125	PVC-U
38 x 1 1/2"	50	26	40	20	45	PFXAFV380150	PVC-U
50 x 2"	70	38	40	20	45	PFXAFV500200	PVC-U

*Suitable for PE as well as PVC (depending on pipe material)



Solvent PVC fittings

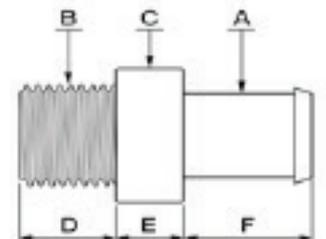
OD - A x B	C	ID	D	E	F	Artikelnummer	Material
6,3 x 20	25	3,5	20	15	30	PFXAIV060200	PVC-U
10 x 20	30	6,5	20	15	30	PFXAIV100200	PVC-U
12,5 x 20	30	8,5	20	15	30	PFXAIV125200	PVC-U
19 x 25	40	13	25	15	30	PFXAIV190250	PVC-U
25 x 32	40	18,5	30	20	40	PFXAIV250320	PVC-U
32 x 40	50	22	35	20	40	PFXAIV320400	PVC-U
38 x 50	50	26	40	20	45	PFXAIV380500	PVC-U
50 x 63	70	38	40	20	45	PFXAIV500630	PVC-U



Fittings for PTFE pipe

Threaded PTFE fittings

OD - A x B (Thread)	C	ID	D	E	F	Artikelnummer	Material
6,3 x 1/2"	25	3,5	20	15	30	PFXAFT063050	PTFE
10 x 1/2"	30	6,5	20	15	30	PFXAFT100050	PTFE
12,5 x 1/2"	30	8,5	20	15	30	PFXAFT125050	PTFE
19 x 3/4"	40	13	25	15	30	PFXAFT190075	PTFE
25 x 1"	40	18,5	30	20	40	PFXAFT250100	PTFE

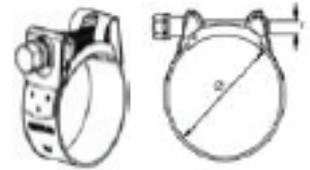


Stainless steel clamps

SS clamps for RPVC and LDPE material

Inner Pipe (LDPE and RPVC)	Clamp Size	Code	Material	Screw mm	Torque Nm
6 x 11,5	10 – 12 mm	PFXCLAMP115	A2 Stainless Steel	7	1,5
10 x 16	15 – 17 mm	PFXCLAMP160	A2 Stainless Steel	7	1,5
12 x 18,5	17 – 19 mm	PFXCLAMP185	A4 Stainless Steel	10	10
20 x 26	25 – 27 mm	PFXCLAMP260	A4 Stainless Steel	10	10
25 x 33	31 – 34 mm	PFXCLAMP330	A4 Stainless Steel	11	12
32 x 42	40 – 43 mm	PFXCLAMP420	A4 Stainless Steel	11	12
40 x 48	47 – 51 mm	PFXCLAMP480	A4 Stainless Steel	11	16
50 x 62	59 – 63 mm	PFXCLAMP620	A4 Stainless Steel	11	16

*Suitable for PE as well as PVC (depending on material)



SS clamps for PTFE material

Inner Pipe (LDPE and RPVC)	Clamp Size	Code	Material	Screw mm	Torque Nm
6 x 8	7 – 9 mm	PFXCLAMP080	A2 Stainless Steel	7	1,5
8 x 10	9 – 11 mm	PFXCLAMP100	A2 Stainless Steel	7	1,5
10 x 12	11 – 13 mm	PFXCLAMP120	A4 Stainless Steel	7	1,5
12 x 14	13 – 15 mm	PFXCLAMP140	A4 Stainless Steel	7	1,5
19 x 21	19 – 21 mm	PFXCLAMP210	A4 Stainless Steel	10	10
25 x 28	27 – 29 mm	PFXCLAMP280	A4 Stainless Steel	10	10

Working pressure

The table shows the maximum working pressure (bar) at 20°C

Material	6,3 x 11,5	10 x 16	12,5 x 18,5	19 x 26	25 x 33	32 x 42	38 x 48	50 x 62
RPVC	16	15	15	10	10	10	10	8
LDPE	16,8	14	12	17,5	16,3	13,8	12,5	11,3

Material	6 x 8	8 x 10	10 x 12	12 x 15	19 x 21	25 x 28
PTFE	14	10,5	10	13	8	3,8

Operating temperature

The table shows the minimum and maximum operating temperatures

Material	T min	T max
RPVC	-20°C	+55°C
LDPE	-20°C	+65°C
PTFE	-70°C	+250°C